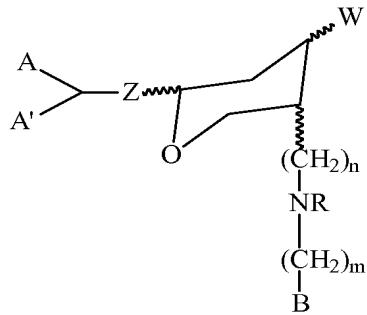


## **Amendments to the Claims:**

*This listing of claims will replace all prior versions, and listings, of claims in the application:*

1. (Currently Amended) A 3,6-substituted pyran group-containing compound having the structural formula:



wherein

A, A' are each phenyl;

B is optionally substituted C<sub>4</sub>-C<sub>14</sub> aryl;

Z is a chemical bond;

R is H or C<sub>1-8</sub> alkyl;

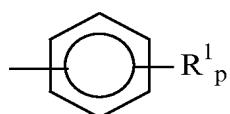
W is selected from the group consisting of hydrogen and -OH;

~~n is + n is 0~~; and

~~m is 0 m is 1~~

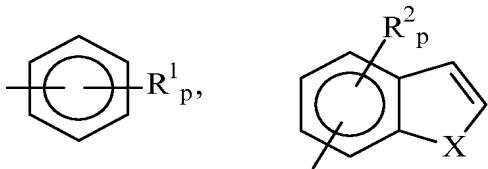
or a pharmaceutically acceptable derivative or salt thereof.

2. (Previously Presented) The compound of claim 1, wherein at least one of A and A' are:



where  $R^1$  is selected from the group consisting of  $C_{1-4}$  alkyl,  $C_{2-6}$  alkenyl,  $C_{2-6}$  optionally halogenated alkynyl,  $C_{2-6}$  hydroxyalkynyl, halo, -CN, -COOR, where R is  $C_{1-18}$  alkyl,  $C_{5-10}$  cycloalkyl,  $C_{2-18}$  alkenyl, -OH, -NO<sub>2</sub>, -NH<sub>2</sub>, -OR<sup>2</sup> where R<sup>2</sup> is  $C_{1-8}$  alkyl,  $C_{5-6}$  cycloalkyl, or  $C_{2-8}$  alkenyl.

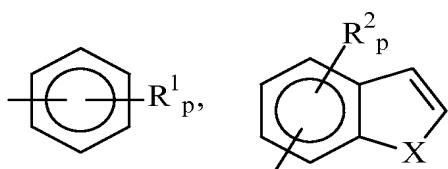
3. (Previously Presented) The compound of claim 1, wherein B is selected from the group



where  $R^1$  is selected from the group consisting of  $C_{1-4}$  alkyl,  $C_{2-6}$  alkenyl,  $C_{2-6}$  optionally halogenated alkynyl,  $C_{2-6}$  hydroxyalkynyl, halo, -CN, -COOR, where R is  $C_{1-18}$  alkyl,  $C_{5-10}$  cycloalkyl,  $C_{2-18}$  alkenyl, -OH, -NO<sub>2</sub>, -NH<sub>2</sub>, -OR<sup>2</sup> where R<sup>2</sup> is  $C_{1-8}$  alkyl,  $C_{5-6}$  cycloalkyl, or  $C_{2-8}$  alkenyl; and

wherein  $R^2$  have the meaning of  $R^1$  and also a 5 or 6 membered heterocycle containing 1 or more heteroatoms selected from the group consisting of N, O, and S, and wherein X is N, O, or S.

4. (Previously Presented) The compound of claim 2, wherein B is selected from the group

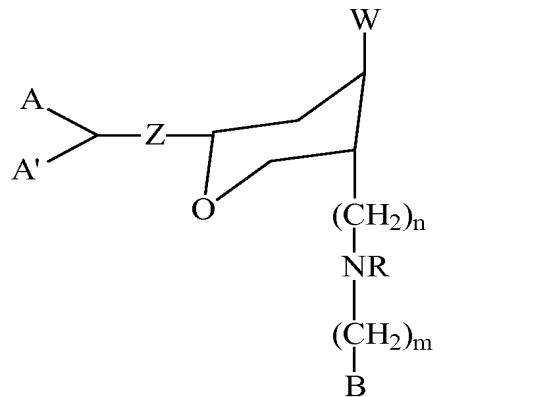


where  $R^1$  is selected from the group consisting of  $C_{1-4}$  alkyl,  $C_{2-6}$  alkenyl,  $C_{2-6}$  optionally halogenated alkynyl,  $C_{2-6}$  hydroxyalkynyl, halo, -CN, -COOR, where R is  $C_{1-18}$  alkyl,  $C_{5-10}$  cycloalkyl,  $C_{2-18}$  alkenyl, -OH, -NO<sub>2</sub>, -NH<sub>2</sub>, -OR<sup>2</sup> where R<sup>2</sup> is  $C_{1-8}$  alkyl,  $C_{5-6}$  cycloalkyl, or  $C_{2-8}$  alkenyl; and

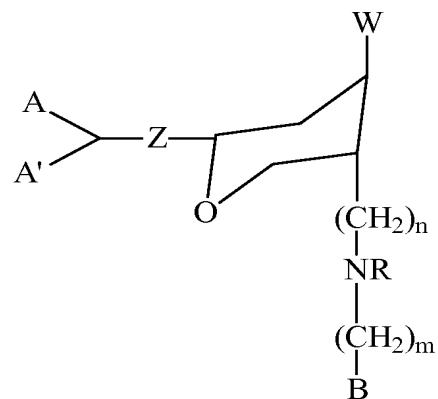
wherein R<sup>2</sup> have the meaning of R<sup>1</sup> and also a 5 or 6 membered heterocycle containing 1 or more heteroatoms selected from the group consisting of N, O, and S, and wherein X is N, O, or S.

5. (Original) The compound of claim 3, wherein A and A' are both unsubstituted phenyl.

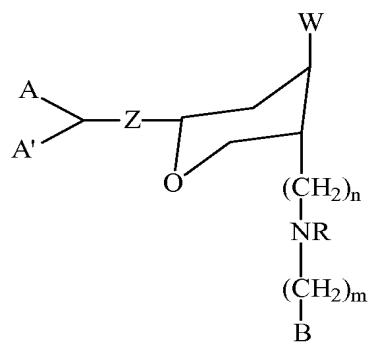
6. (Original) The compound of claim 1, having the formula



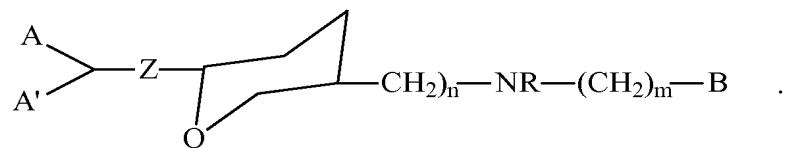
7. (Original) The compound of claim 2, having the formula



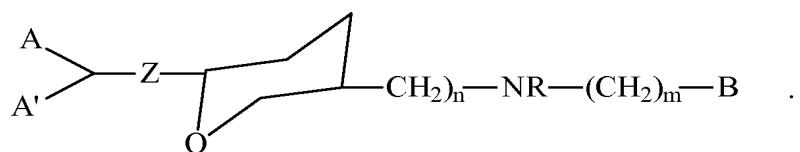
8. (Original) The compound of claim 3, having the formula



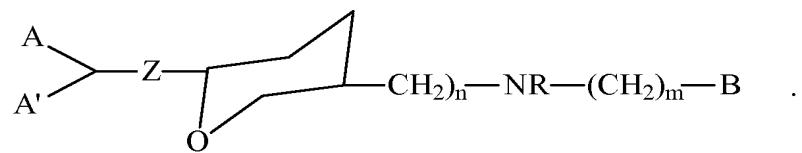
9. (Original) The compound of claim 1, having the formula



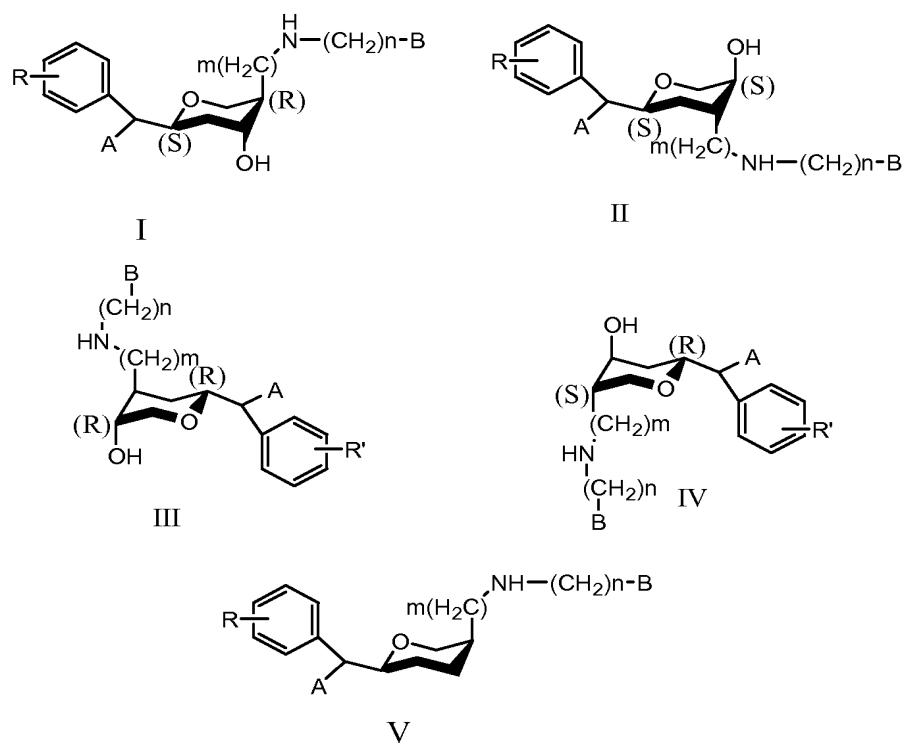
10. (Original) The compound of claim 2, having the formula



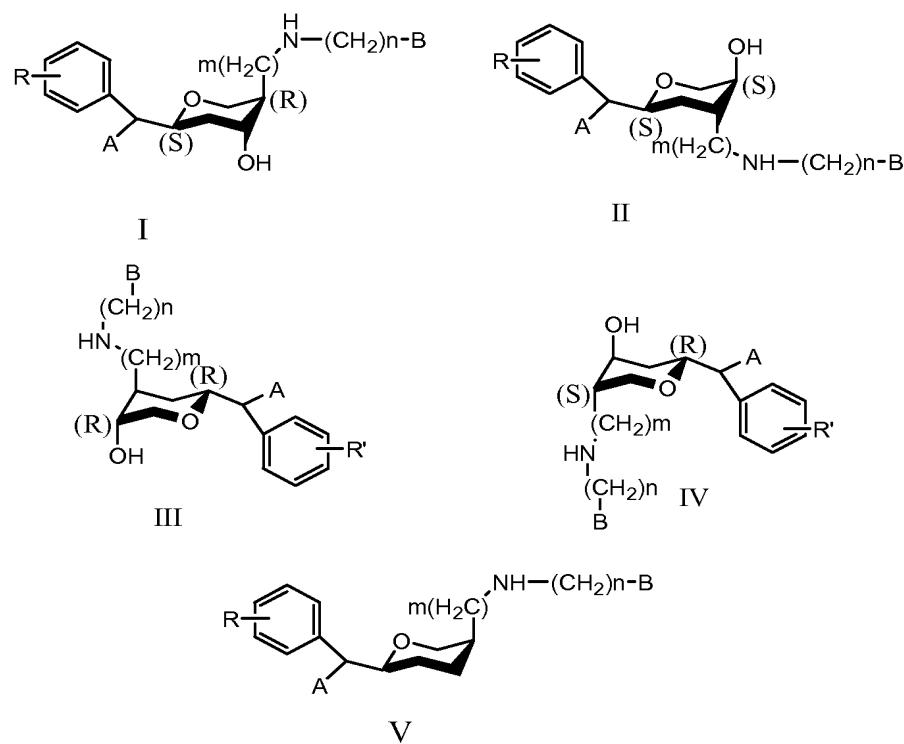
11. (Original) The compound of claim 3, having the formula



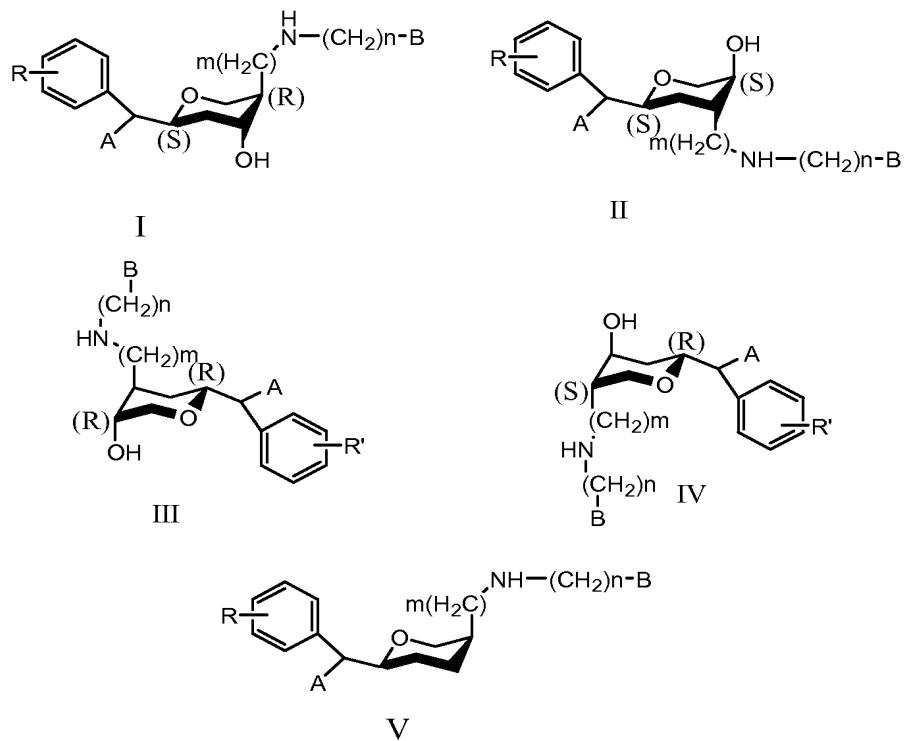
12. (Original) The compound of claim 1, having a formula selected from the group consisting of:



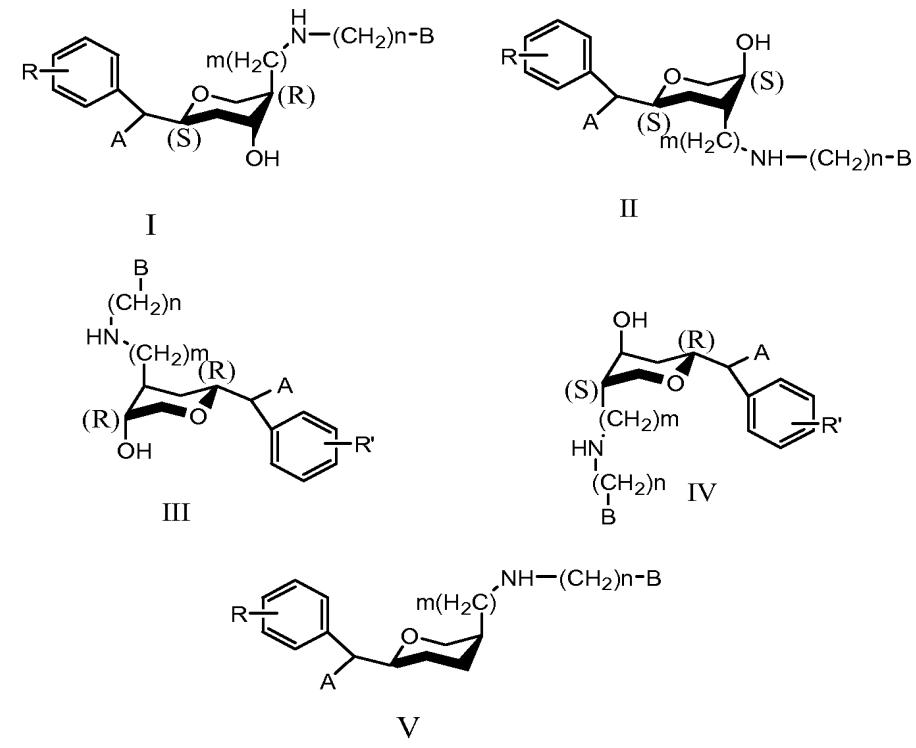
13. (Original) The compound of claim 2, having a formula selected from the group consisting of:



14. (Original) The compound of claim 3, having a formula selected from the group consisting of:



15. (Original) The compound of claim 5, having a formula selected from the group consisting of:



16. (Original) The compound of claim 1, selected from the group consisting of:

Synthesis of *Cis*-(6-benzhydryl-tetrahydropyran-3-yl)-(4-hydroxy-benzyl)-amine (16h);

Synthesis of *Cis*-(6-benzhydryl-tetrahydropyran-3-yl)-(1H-iodo-5-ylmethyl)-amine (16n);

Synthesis of *Cis*-(6-benzhydryl-tetrahydropyran-3-yl)-(4-amino-benzyl)-amine (16o);

Synthesis of *Cis*-(6-benzhydryl-tetrahydropyran-3-yl)-(3,4-dichloro-benzyl)-amine (16i);

Procedure E. Synthesis of (2S, 4R, 5R)-2-benzhydryl-5-(4-methoxy-benzylamino)-tetrahydropyran-4-ol (-)29a;

Synthesis of (2S, 4R, 5R)-2-benzhydryl-5-(4-fluoro-benzylamino)-tetrahydro-pyran-4-ol (-)29b;

Synthesis of (2S, 4R, 5R)-2-benzhydryl-5-benzylamino-tetrahydro-pyran-4-ol (-)29d;

Synthesis of (2S, 4R, 5R)-2-benzhydryl-5-(2,4-dimethoxy-benzylamino)-tetrahydropyran-4-ol (-)29e;

Synthesis of (2S, 4R, 5R)-2-benzhydryl-5-(3,5-dimethoxy-benzylamino)-tetrahydropyran-4-ol (-)29f;

Procedure H. Synthesis of (2S, 4R, 5R)-2-benzhydryl-5-(4-hydroxy-benzylamino)-tetrahydropyran-4-ol (-)32a;

Synthesis of (2S, 4R, 5R)-2-benzhydryl-5-[(1H-indol-5-ylmethyl)-amino]-tetrahydropyran-4-ol (-)32b;

Synthesis of (2R, 4S, 5S)-2-benzhydryl-5-(4-hydroxy-benzylamino)-tetrahydro-pyran-4-ol (+)32a;

Synthesis of (2R, 4S, 5S)-2-benzhydryl-5-[(1H-indol-5-ylmethyl)-amino]-tetrahydropyran-4-ol (+)32b;

Synthesis of *cis*-(3S, 6S)-(6-benzhydryl-tetrahydropyran-3-yl)-(4-hydroxy-benzyl)-amine (-)37a; and

Synthesis of *cis*-(3R, 6R)-(6-benzhydryl-tetrahydropyran-3-yl)-(4-hydroxy-benzyl)-amine (+)37a.

17. (Original) The compound of claim 1, selected from the group consisting of:

Procedure E. Synthesis of (2S, 4R, 5R)-2-benzhydryl-5-(4-methoxy-benzylamino)-tetrahydropyran-4-ol (-)29a;

Synthesis of (2S, 4R, 5R)-2-benzhydryl-5-(4-fluoro-benzylamino)-tetrahydro-pyran-4-ol (-)29b;

Synthesis of (2S, 4R, 5R)-2-benzhydryl-5-benzylamino-tetrahydro-pyran-4-ol (-)29d;

Synthesis of (2S, 4R, 5R)-2-benzhydryl-5-(2,4-dimethoxy-benzylamino)-tetrahydropyran-4-ol (-)29e;

Synthesis of (2S, 4R, 5R)-2-benzhydryl-5-(3,5-dimethoxy-benzylamino)-tetrahydropyran-4-ol (-)29f;

Procedure H. Synthesis of (2S, 4R, 5R)-2-benzhydryl-5-(4-hydroxy-benzylamino)-tetrahydropyran-4-ol (-)32a;

Synthesis of (2S, 4R, 5R)-2-benzhydryl-5-[(1H-indol-5-ylmethyl)-amino]-tetrahydropyran-4-ol (-)32b;

Synthesis of (2R, 4S, 5S)-2-benzhydryl-5-(4-hydroxy-benzylamino)-tetrahydro-pyran-4-ol (+)32a;

Synthesis of (2R, 4S, 5S)-2-benzhydryl-5-[(1H-indol-5-ylmethyl)-amino]-tetrahydropyran-4-ol (+)32b;

Synthesis of *cis*-(3S, 6S)-(6-benzhydryl-tetrahydropyran-3-yl)-(4-hydroxy-benzyl)-amine (-)37a; and

Synthesis of *cis*-(3R, 6R)-(6-benzhydryl-tetrahydropyran-3-yl)-(4-hydroxy-benzyl)-amine (+)37a.

18.-24. (Cancelled)